

thither, but every where between t and c , many of these rays will get through the base and be refracted; and the same is to be understood of the meanly refrangible rays on either side of the point r . Whence it follows, that the base of the Prism must every where between t and B , by a total reflexion of all sorts of rays to the Eye, look white and bright. And every where between p and C , by reason of the transimission of many rays of every sort, look more pale, obscure and dark. But at r , and in other places between p and t , where all the more refrangible rays are reflected to the Eye, and many of the less refrangible are transmitted, the excess of the most refrangible in the reflected Light will tinge that Light with their Colour, which is violet and blue. And this happens by taking the line Cpr to B any where between the ends of the Prism HG and EI .

PROP. IX. PROB. IV.

By the discovered Properties of Light to explain the Colours of the Rain-bow.

This Bow never appears but where it Rains in the Sun-shine, and may be made artificially by spouting up Water which may break aloft, and scatter into Drops, and fall down like Rain. For the Sun shining upon these Drops certainly causes the Bow to appear to a Spectator standing in a due position to the Rain and Sun. And hence it is now agreed upon, that this Bow is made by refraction of the Sun's Light in Drops of falling Rain. This was understood by some of the Ancients, and of late more fully discovered and explained by the Famous

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